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4. (Amended) A method according to claim 1, comprising recording the at least one image in memory of a device (17) external to the camera means.

A3

8. (Amended) A method according to claim 1, comprising welding the structure automatically or with the assistance of a user.

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10. (Amended) A method according to claim 1, comprising determining the positions of the weld points from the at least one image either automatically or with the assistance of a user.

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12. (Amended) A method according to claim 1, comprising welding the constituent pieces together by arc welding.

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14. (Amended) A method of forming a large welded structure, comprising:

arranging constituent pieces of the structure to be welded on a support surface in a desired configuration,

recording at least one extended image of the arrangement of the constituent pieces on the support surface,

determining from the image(s) the positions of a plurality of weld points,

welding with welding apparatus the constituent pieces together at said weld points to form the welded structure, and

controlling the welding of the constituent pieces with said welding apparatus on the basis of the determined positions of the weld points.

15. (Amended) A welding arrangement for forming a welded structure from a plurality of constituent pieces, comprising

a support surface for supporting the constituent pieces in the configuration of a structure to be welded,

camera means for providing an extended image of the structure to be welded,

Ab evaluating means for determining the positions of weld points of the structure to be welded based on the image provided by the camera means,

welding apparatus for welding together the constituent pieces of the structure at the positions of the weld points determined by the evaluating means.

Add new claims as follows:

A7 23. (New) A method according to claim 3, comprising recording the at least one image in memory of the camera means (3), or in memory of the welding apparatus (4), or in a combined memory for the camera means (3) and the welding apparatus (4).

24. (New) A method according to claim 1, comprising recording the extended image photographically.
